

LAHIVE  
&  
COCKFIELD  
L L P

COUNSELLORS AT LAW  
28 STATE STREET  
BOSTON, MASSACHUSETTS 02109-1784  
TELEPHONE (617) 227-7400  
FAX (617) 742-4214  
lc@lahive.com

JOHN A. LAHIVE, JR. (1928-1997)  
THOMAS V. SMURZYNSKI  
RALPH A. LOREN  
GIULIO A. DeCONTI, JR.  
ANN LAMPORT HAMMITTE  
ELIZABETH A. HANLEY  
AMY BAKER MANDRAGOURAS  
ANTHONY A. LAURENTANO  
KEVIN J. CANNING  
JANE E. REMILLARD  
DeANN FORAN SMITH  
PETER C. LAURO  
JEANNE M. DIGIORGIO  
DEBRA J. MILASINIC, Ph.D.  
DAVID J. RIKKERS  
DAVID R. BURNS  
JOHN S. CURRAN  
SEAN D. DETWEILER

DT05 Rec'd PCT/PTO 18 OCT 2002  
10/030850  
PATENT AGENTS  
CYNTHIA L. KANIK, Ph.D.  
MEGAN E. WILLIAMS, Ph.D.  
RICHANAND  
MICHAEL PHILLIPPS  
LISA M. DIROCCO  
HATHAWAY P. RUSSELL  
MARIA LACCOTRIPE ZACHARAKIS, Ph.D.  
VINCENT P. LOCCISANO  
MERIDETH C. ARNOLD  
DANIELLE L. HERRITT  
SENIOR COUNSEL  
JAMES E. COCKFIELD  
OF COUNSEL  
JEREMIAH LYNCH  
WILLIAM A. SCOFIELD, JR.  
SIBLEY P. REPPERT  
TECHNICAL SPECIALISTS  
CYNTHIA M. SOROOS  
PETER W. DINI, Ph.D.  
EUIHOON LEE  
CATHERINE E. McPHERSON  
ERIC F. WAGNER, Ph.D.  
JACOB G. WEINTRAUB  
JONATHAN M. SPARKS, Ph.D.  
CRISTIN E. HOWLEY, Ph.D.  
\* Admitted in NY only  
\*\* Admitted in TX only

October 18, 2002

Commissioner for Patents  
Box PCT  
Washington, D.C. 20231

Re: U.S. Patent Application Serial No. 10/030,850  
(Based on International Patent Application No. PCT/GB00/02662)  
U.S. Filing Date: January 11, 2002  
International Filing Date: July 11, 2000  
Title: ORBIT AND HOMOLOGUES THEREOF  
Inventors: Maria do Carmo Avides, et al.  
Attorney Docket No. CCI-018US

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

1. Response to Notification of Missing Requirements (1 page, in duplicate);
2. Three Executed Declaration, Petition and Powers of Attorney (12 pages, total);
3. Transmittal Letter for Diskette Containing Sequence Listing (1 page);
4. Diskette containing Computer Readable Form of the Sequence Listing;
5. Paper Copy of Substitute Sequence Listing (Pages 1-13);
6. Copy of Notification of Missing Requirements (2 pages);
7. Request for Five-Month Extension of Time (1 page, in duplicate); and
8. A Pre-Paid Acknowledgment Postcard.

Please charge any necessary fees to our Deposit Account No. 12-0080. The undersigned requests any extensions of time necessary to respond. For this purpose, a duplicate of this sheet is enclosed.

"Express Mail" mailing label number	EL 931 680 311 US
Date of Deposit	October 18, 2002
I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, Box PCT, Washington, DC 20231	
Signature	<i>Viriato B Cardoso</i>
Please Print Name of Person Signing	
Viriato B Cardoso	

Respectfully submitted,

LAHIVE & COCKFIELD, LLP

*Cynthia L. Kanik*  
Cynthia L. Kanik, Ph.D.  
Registration No. 37,320  
Attorney for Applicants  
28 State Street  
Boston, MA 02109  
(617) 227-7400

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: **Maria do Carmo AVIDES, et al.**

International Application No.: **PCT/GB00/02662**

International Filing Date: **July 11, 2000**

U.S. Serial No.: **010/030,850**

Filed: **January 11, 2002**

For: **ORBIT AND HOMOLOGUES THEREOF**

Attorney Docket No.: **CCI-018US**

**Group Art Unit:** Not Yet Assigned

**Examiner:** Not Yet Assigned

**Commissioner for Patents  
Box PCT  
Washington, D.C. 20231**

**RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS**

Dear Sir:

Responsive to the Notification of Missing Requirements Under 35 U.S.C. §371 in the United States Designated/Elected Office (DO/EO/US) dated March 19, 2002, Applicants' attorney submits both, a substitute paper copy (pages 1-13) and a computer-readable form (diskette) of the Sequence Listing as required by 37 C.F.R. 1.821(e). Also enclosed are three *executed* Declaration, Petition and Powers of Attorney and a copy of the 371 Formalities Letter along with a Request for Five-Month Extension of Time.

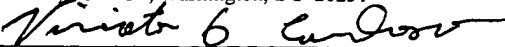
Please charge any necessary fees to Deposit Account No. 12-0080. The undersigned requests any extensions of time necessary to respond.

Please charge any underpayments or credit any overpayments associated with this communication to Deposit Account No. 12-0080. For this purpose, a duplicate of this page is enclosed.

"Express Mail" mailing label number EL 931 680 311 US

Date of Deposit October 18, 2002

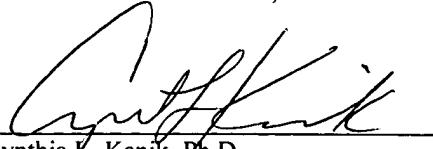
I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, Box PCT, Washington, DC 20231

  
Signature

Viriato 6 Cardoso  
Please Print Name of Person Signing

Respectfully submitted,

LAHIVE & COCKFIELD, LLP

  
Cynthia L. Kanik, Ph.D.  
Registration No. 37,320  
Attorney for Applicants  
28 State Street  
Boston, MA 02109  
(617) 227-7400



## UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents, Box PCT  
United States Patent and Trademark Office  
Washington, D.C. 20231  
www.uspto.gov

U.S. APPLICATION NUMBER NO. 10/030,850	FIRST NAMED APPLICANT Maria do Carmo Avides	ATTY. DOCKET NO. CCI-018US
---	--	-------------------------------

INTERNATIONAL APPLICATION NO. PCT/GB00/02662
---

I.A. FILING DATE 07/11/2000	PRIORITY DATE 07/13/1999
--------------------------------	-----------------------------

Giulio A DeConti, Jr.,  
Lahive & Cockfield  
28 State Street  
Boston, MA 02109

**DOCKETED**  
*May 19, 2002 Missing Page*  
*Dec 19, 2002 Esp*

CONFIRMATION NO. 8298

371 FORMALITIES LETTER



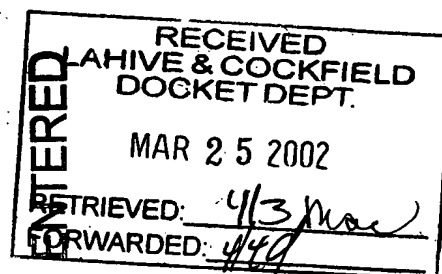
\*OC000000007645283\*

Date Mailed: 03/19/2002 ✓

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- U.S. Basic National Fees
- Indication of Small Entity Status
- Priority Document
- Biochemical Sequence Listing
- Copy of IPE Report
- Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report
- Oath or Declaration
- Preliminary Amendments
- Small Entity Statement



The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
  - is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTH FROM THE DATE OF THIS NOTICE OR BY 22 or 32 MONTHS (where 37 CFR 1.495 applies) FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions

of 37 CFR 1.136(a).

The following items **MUST** be furnished within the period set forth below:

• The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):

- A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).
- APPLICANT MUST PROVIDE:
  - An initial or substitute computer readable form (CRF) of the "Sequence Listing."

• For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase PatentIn Software, call (703) 306-2600
- For PatentIn Software Program Help, call (703) 306-4119 or e-mail at [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or [patin3help@uspto.gov](mailto:patin3help@uspto.gov)

- A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

WINSTON M ALVARADO

Telephone: (703) 305-6421

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/030,850	PCT/GB00/02662	CCI-018US